

**§ 90.259 Assignment and use of frequencies in the bands 216–220 MHz and 1427–1435 MHz.**

Frequencies in the bands 216–220 MHz and 1427–1435 MHz may be assigned to applicants under this part provided the band is listed in the individual radio service under which they establish eligibility. Use of these bands is limited to telemetering purposes only and all operation is secondary to Federal Government operations. Operation in the band 216–220 MHz is also secondary to the maritime mobile service and operation in the band 1427–1429 MHz is also secondary to the space operation service (earth-to-space). Base stations authorized in these bands shall be used to perform telecommand functions with associated mobile telemetering stations. Base stations may also command actions by the vehicle itself, but will not be authorized solely to perform this function. Airborne use will not be authorized. Each application will be coordinated with the Federal Government by the Federal Communications Commission and is subject to such technical and operational limitations as may be imposed by the government. Each application should include precise information concerning emission characteristics, transmitter frequency deviation, output power, type and directional characteristics, if any, of the antenna, and the minimum necessary hours of operation.

[43 FR 54791, Nov. 22, 1978, as amended at 54 FR 38681, Sept. 20, 1989]

**§ 90.261 Assignment and use of the frequencies in the band 450–470 MHz for fixed operations.**

(a) Except as provided for in paragraphs (d) and (e) of this section, frequencies in the 450–470 MHz band as listed in the tables of frequencies for the radio services in this part may be assigned to all eligibles, with the exception of Business Radio Service eligibles, for fixed use on a secondary basis to land mobile operations.

(b) Fixed stations located 140 km (87 mi) or more from the center of any urbanized area of 600,000 or more population are limited to a transmitter output power of 75 watts. Fixed stations less than 140 km (87 mi) from the centers of these areas are limited to a

transmitter output power of 20 watts. Urbanized areas of 600,000 or more population are defined in the U.S. Census of Population 1970, Vol. 1, Table 20, pages 1–74. The centers of the urbanized areas are determined from the Appendix, page 226, of the U.S. Department of Commerce publication “Airline Distance Between Cities in the United States.”

(c) All fixed systems are limited to one frequency pair with 5 MHz spacing and must employ directional antennas with a front-to-back ratio of 15 dB, except that omnidirectional antennas having unity gain may be employed by stations communicating with a minimum of three receiving locations encompassed in a sector of at least 160° in azimuth. Stations authorized for secondary fixed operations prior to (effective date of the rules) may continue to operate under the conditions of their initial authorization.

(d) Frequencies in the Business Radio Service subject to § 90.75(c)(26) will be authorized only to Business Radio Service eligibles. Business Radio Service eligibles may not access frequencies allocated to another radio service for the purposes of conducting secondary fixed operations.

(e) Coordination of assignable frequencies subject to the provisions of this section will be permitted by any certified frequency coordinator. If an applicant elects to obtain a frequency recommendation from the certified frequency coordinator for the service in which the applicant is eligible, the coordinator shall first attempt to recommend a frequency within the applicant's own radio service. If none are available, the coordinator may then recommend a frequency allocated to another radio service. If an applicant elects to obtain a frequency recommendation from a certified coordinator of a service in which the applicant is not eligible, that coordinator may only recommend a frequency allocated to the service for which the coordinator is certified. If a coordinator recommends a frequency allocated to a service where the applicant is not eligible on a primary basis, or if a recommended frequency is shared by more than one radio service on a primary basis, then the coordinator must notify

all coordinators certified to recommend that frequency on a primary basis. If any of these coordinators objects to a recommendation, they must notify the coordinator making the frequency recommendation of such objection within 10 working days, as calculated in accordance with §1.4 of the Rules, from receipt of the notification. The recommending coordinator should attempt to resolve any objections raised by the notified coordinators and may not submit the application to the Commission prior to the expiration of this 10-day period.

(f) Secondary fixed operations pursuant to paragraph (a) of this section will not be authorized on the following frequencies:

Frequencies (MHz)

451.800/456.800  
451.80625/456.80625  
451.8125/456.8125  
451.81875/456.81875  
452.525  
452.53125  
452.5375  
452.54375  
452.550  
452.55625  
452.5625  
452.56875  
452.575  
452.58125  
452.5875  
452.59375  
452.600  
452.60625  
452.6125  
452.61875  
452.925/457.925  
452.93125/457.93125  
452.9375/457.9375  
452.94375/457.94375  
452.950/457.950  
452.95625/457.95625  
452.9625/457.9625  
452.96875/457.96875  
453.025/458.025  
453.03125/458.03125  
453.0375/458.0375  
453.04375/458.04375  
453.075/458.075  
453.08125/458.08125  
453.0875/458.0875  
453.09375/458.09375  
453.125/458.125  
453.13125/458.13125  
453.1375/458.1375

453.14375/458.14375  
453.175/458.175  
453.18125/458.18125  
453.1875/458.1875  
453.19375/458.19375  
454.000/459.000  
454.00625/459.00625  
454.0125/459.0125  
454.01875/459.01875  
462.950/467.950  
462.95625/467.95625  
462.9625/467.9625  
462.96875/467.96875  
462.975/467.975  
462.98125/467.98125  
462.9875/467.9875  
462.99375/467.99375  
463.000/468.000  
463.00625/468.00625  
463.0125/468.0125  
463.01875/468.01875  
463.025/468.025  
463.03125/468.03125  
463.0375/468.0375  
463.04375/468.04375  
463.050/468.050  
463.05625/468.05625  
463.0625/468.0625  
463.06875/468.06875  
463.075/468.075  
463.08125/468.08125  
463.0875/468.0875  
463.09375/468.09375  
463.100/468.100  
463.10625/468.10625  
463.1125/468.1125  
463.11875/468.11875  
463.125/468.125  
463.13125/468.13125  
463.1375/468.1375  
463.14375/468.14375  
463.150/468.150  
463.15625/468.15625  
463.1625/468.1625  
463.16875/468.16875  
463.175/468.175  
463.18125/468.18125  
463.1875/468.1875  
463.19375/468.19375

[57 FR 24992, June 12, 1992, as amended at 58 FR 33212, June 16, 1993; 60 FR 37268, July 19, 1995]

**§ 90.263 Substitution of frequencies below 25 MHz.**

Frequencies below 25 MHz when shown in radio service frequency listings under this part will be assigned to base or mobile stations only upon a